Behrang Mehrparvar, Ph.D.

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AI Researcher · Cognitive Scientist · Philosopher of Mind
Netherlands | [LinkedIn](#) | [Website](#) | [Medium](#) | [Synaptosearch](#) |

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Research Profile

Interdisciplinary researcher with expertise in **generative AI, computational cognitive science, and philosophy of mind**. I explore how representation, associative memory, and interbrain synchrony contribute to intelligence—human, artificial, and collective. My work combines **deep learning, cognitive modeling, and conceptual analysis** to push beyond current paradigms in AI and consciousness studies.

Research Interests

- Generative models, interpretability, knowledge representation
- Associative memory & Hebbian learning in AI
- Interbrain synchrony & neurofeedback systems
- Philosophy of mind: synchronicity, consciousness, mental continuity
- Human–AI co-creativity & hybrid systems

Education

- **M.Sc. (expected 2025), Brain & Cognitive Sciences** — University of Amsterdam
- **Ph.D., Computer Science** — University of Houston (2017), GPA: 3.8/4.0
- **M.Sc., Computer Engineering (Software)** — Iran University of Science & Technology (2011)

Academic Positions

Vrije Universiteit Amsterdam — Researcher *(2024–Present)*

- Studying **interbrain synchrony** during collaborative decision-making.
- Publishing theoretical work on **mental continuity beyond predictive processing**.

Institute for Logic, Language and Computation (ILLC), University of Amsterdam — Researcher *(2024)*

- Developed methods to **detect & translate ambiguity** in multilingual LLMs (ACL 2024).

University of Amsterdam — Researcher *(2023–Present)*

- Projects on medical decision-making with deep brain stimulation, episodic memory & information search.

Pattern Analysis Laboratory, University of Houston — Researcher *(2012–2017)*

- Researched **conceptual domain adaptation** and **deep network community analysis**.

Performance & Dependability Engineering Lab — Researcher *(2009–2011)*

- Designed a **model checker for SDES descriptions**.

Teaching Experience

- Teaching Assistant, University of Houston (2011–2016): Machine Learning, AI, Data Structures.
- Instructor, Daneshsar Institute, Tehran (2010): Multimedia Systems, Advanced English.

Selected Publications

- Mehrparvar, B. *Consciousness: war, and peace!* PsyArXiv Preprints, 2025.
- Mehrparvar, B. *Beyond Predictive Processing: Explaining Mental Continuity Through a Potentia Monistic Framework.* Int. Conf. Philosophy of Mind, 2025.
- Mehrparvar, B. & Pezzelle, S. *Detecting and Translating Language Ambiguity with Multilingual LLMs.* ACL Workshop, 2024.
- Mehrparvar, B. & Vilalta, R. *Conceptual Domain Adaptation Using Deep Learning.* arXiv, 2018.
- Mehrparvar, B. & Abdollahi Azgomi, M. *Towards a Multi-Formalism Model Checker Based on SDES Description.* FCS Proceedings, 2011.

Grants, Fellowships & Initiatives

- **Founder, Synaptosearch (2024–present)** — Independent research initiative on global AI–language, associative memory AI, adaptive scaffolding.
- Independent studies in philosophy of mind and synchronicity, published via Medium.

Core Competencies

- Cognitive modeling, computational neuroscience, philosophy of mind
- Generative AI, representation learning, interpretability
- Cross-disciplinary collaboration & thought leadership
- Teaching & mentoring in AI and cognitive science